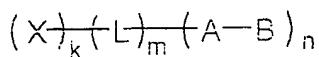


LIST OF CLAIMS

1. (Currently Amended) A photothermographic material comprising a non-photosensitive silver salt of an organic acid, a photosensitive silver halide, a reducing agent for silver ions and a binder on one surface of a support, which comprises at least one compound represented by the following formula (I) and at least one second compound having a formula satisfying both (iv) and that has characteristics satisfying at least one of (i) to (iii):

Formula (I)



wherein, in the above formula, X represents a silver halide adsorption group or light absorption group which contains at least one atom of N, S, P, Se or Te, L represents a (k + n)-valent bridging group containing at least one atom of C, N, S or O, A represents an electron-donating group, B represents a leaving group or a hydrogen atom, A-B is dissociated or deprotonated after oxidation to generate a radical A', k represents 0-3, m represents 0 or 1, and n represents 1 or 2, provided that when k = 0 and n = 1, m = 0;

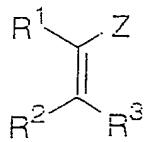
(i) compounds producing imagewise a chemical species that can form development initiation points on and in the vicinity of the non-photosensitive silver salt of an organic acid,

(ii) compounds that provide increase of developed silver grain density to a level of 200-5000% when added in an amount of 0.01 mol/mol of silver,

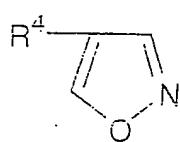
(iii) compounds that provide increase of covering power to a level of 120-1000% when added in an amount of 0.01 mol/mol of silver, and

(iv) compounds represented by any one of the following formula (1) to (3):

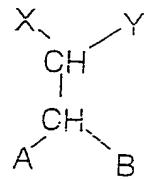
Formula (1)



Formula (2)



Formula (3)



wherein:

in the formula (1), R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> each independently represents a hydrogen atom or a substituent, Z represents an electron withdrawing group, and R<sup>1</sup> and Z, R<sup>2</sup> and R<sup>3</sup>, R<sup>1</sup> and R<sup>2</sup>, or R<sup>3</sup> and Z may be combined with each other to form a ring structure,

in the formula (2), R<sup>4</sup> represents a substituent, and

in the formula (3), X and Y each independently represent a hydrogen atom or a substituent, A and B each independently represents an alkoxy group, an alkylthio group, an alkylamino group, an aryloxy group, an arylthio group, an anilino group, a

heterocyclxyloxy group, a heterocyclthio group or a heterocyclamino group, and X and Y or A and B may be combined with each other to form a ring structure.

2. (Original) A photothermographic material according to Claim 1, which comprises at least one compound of (i).

3. (Original) A photothermographic material according to Claim 1, which comprises at least one compound of (ii).

4. (Original) A photothermographic material according to Claim 3, wherein said compound of (ii) provides increase of developed silver grain density to a level of 500-3000% when it is added in an amount of 0.01 mol/mol of silver

5. (Original) A photothermographic material according to Claim 1, which comprises at least one compound of (iii).

6. (Original) A photothermographic material according to Claim 1, wherein said compound of (iii) provides increase of covering power to a level of 150-500% when it is added in an amount of 0.01 mol/mol of silver.

7. (Original) A photothermographic material according to Claim 1, which comprises at least one compound of (iv).

8. (Original) A photothermographic material according to Claim 1, which comprises the compound represented by the formula (I) in an image-forming layer containing the photosensitive silver halide.

9. (Original) A photothermographic material according to Claim 1, which comprises the compound represented by the formula (I) in an amount of  $1 \times 10^{-9}$  to  $5 \times 10^{-2}$  mol per mole of silver halide.

10. (Original) A photothermographic material according to Claim 1, which comprises the compound represented by the formula (I) in an amount of  $1 \times 10^{-8}$  to  $2 \times 10^{-3}$  mol per mole of silver halide.

11. (Original) A photothermographic material according to Claim 1, which comprises the compounds of (i), (ii), (iii) and (iv) in an image forming layer comprising said photosensitive silver halide or a layer adjacent thereto.

12. (Original) A photothermographic material according to Claim 1, which comprises the compounds of (i), (ii), (iii) and (iv) in an amount of  $1 \times 10^{-6}$  to 1 mol per mole of silver halide.

13. (Original) A photothermographic material according to Claim 1, which comprises the compounds of (i), (ii), (iii) and (iv) in an amount of  $1 \times 10^{-5}$  to  $5 \times 10^{-1}$  mol per mole of silver halide.

14. (Original) A photothermographic material according to Claim 1, which comprises the compounds of (i), (ii), (iii) and (iv) in an amount of  $2 \times 10^{-5}$  to  $2 \times 10^{-1}$  mol per mole of silver halide.